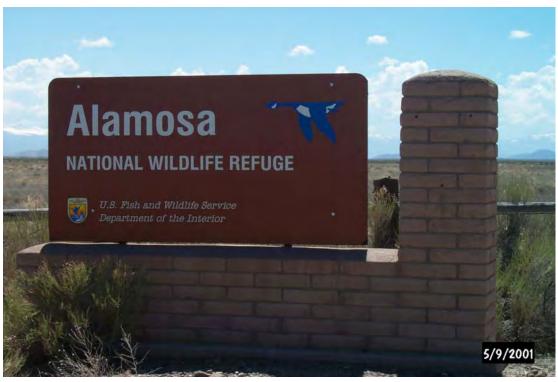
The Road Inventory of Alamosa National Wildlife Refuge Alamosa, CO





Prepared By: Federal Highway Administration Central Federal Lands Highway Division September 2008



TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGE</u>
I.	INTRODUCTION	1 - 1
II.	Summaries by Condition, Surface Type and Functional Class	2 - 1
III.	REFUGE ROUTE LOCATION MAPS	3 - 1
IV.	ROUTE IDENTIFICATION LIST	4 - 1
V.	ROUTE CONDITION RATING SHEETS	5 - 1
VI.	PARKING LOT CONDITION RATING SHEETS	6 - 1
VII.	BRIDGE INVENTORY INFORMATION	7 - 1
VIII.	PHOTOGRAPHIC SHEETS	8 - 1
IX.	ACCIDENT SUMMARY	9 - 1
	APPENDIX Funcitonal Classification Table Description of Rating System	i ii

INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
 - (1) Adjacent vehicle parking areas
 - (2) Provision for pedestrians and bicycles and
 - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads in addition to public access roads. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-bycase basis when being used for programming purposes.

In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Alamosa Summaries

Route Miles and Percentages by Functional Class and Condition

				Conditio	n Rating (Based on	RSL)*				
	Excellent		Good		Fa	Fair		Poor		iled	TOTAL
F. C.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
I	3.18	85.9%	0.52	14.1%							3.70
II	0.26	12.3%	0.16	7.6%	1.69	80.1%					2.11
III											
IV			0.3	100%							0.3
٧			31.34	89.4%	3.72	10.6%					35.06
Totals	3.44	8.4%	32.32	79%	5.41	13.1%					41.17

^{*}For a description of condition ratings for the various surface types see appendix

Route Miles and Percentages by Surface Type and Condition

	Paved Condition Rating [Condition(RSL)]										
	Exceller	Excellent (19-20) Good (13-18) Fair (7-12) Poor (1-6) Failed (0)							TOTAL		
S. T.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES
AS											
СО											
Totals											

	Unpaved Condition Rating [Condition(RSL)]											
	Excellent (8-10)		Good (5-7)		Fair (3-4)		Poor (1-2)		Failed (0)		TOTAL	
S. T.	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	
GR	3.37	41.0%	4.84	59.0%							8.21	
NA	0.07	0.3%	20.60	81.1%	4.73	18.6%					25.40	
PR			6.88	91.0%	0.68	9.0%					7.56	
Totals	3.44	8.4%	32.32	78.5%	5.41	13.1%					41.17	

Square Footage (Parking Areas)

					Condition	Rating					
	Excellent		Good		Fa	air	Poor		Failed		Total
	Square		Square	Square		Square			Square		Square
S. T.	Feet	%	Feet	%	Feet	%	Feet	%	Feet	%	Feet
AS											
СО											
GR			47551	90.3%	5123	9.7%					52674
NA					68600	100.0%					68600
PR											
Totals			47551	39.2%	73723	60.8%					121274

Alamosa

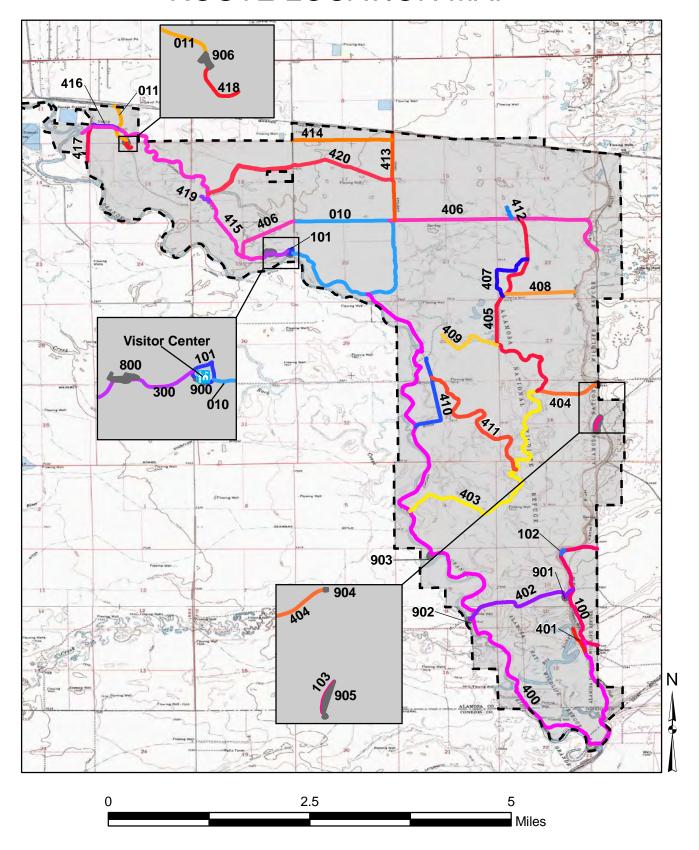
Summaries

Route Miles and Percentages by Use Type and Condition

			Road Co	ndition F	Rating: Pul	olic/Adm	inistrative	Use				PERCENT
	Excellent Good		Fai	Fair		Poor		ed	TOTAL	TOTAL		
USE TYPE	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	MILES	MILES
Public (FC I-III)	3.44	59.2%	0.68	11.7%	1.69	29.1%					5.81	14%
Admin (FC IV-V)			31.64	89.5%	3.72	10.5%					35.36	86%
Totals	3.44	8.4%	32.32	79%	5.41	13.1%					41.17	

				PERCENT								
	Excel	lent	Goo	d	Fair		Poor		Failed		Total	TOTAL
	Square		Square		Square		Square		Square		Square	SF
USE TYPE	Feet	%	Feet	%	Feet	%	Feet	%	Feet	%	Feet	
Public			19328	20.8%	73723	79.2%					93051	77%
Admin			28223	100%							28223	23%
Totals			47551	39.2%	73723	60.8%					121274	

ALAMOSA NATIONAL WILDLIFE REFUGE ROUTE LOCATION MAP



Alamosa - 65510 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes

Yellow = Unpaved Routes

RTE#	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN- PAVED MI	LANES	FC
010	10033321	Auto Tour Route	3.18	From Visitor Center Loop (Route 101) to Headquarters Lateral Road (Route 406)	-	3.18	1	1
011	10033343	Entrance Road	0.52	From Northwest Boundary to Entrance Road Parking Lot (Route 906)	-	0.52	2	1
100	10033322	Bluff Overlook Drive	1.69	From Baca Lane North to Baca Lane South	-	1.69	1	2
101	10050712	Visitor Center Loop	0.19	From end of Harmony Road to end of loop	-	0.19	1	2
102	10033322	Bluff Overlook Vista Road	0.07	From Bluff Overlook Drive (Route 100) North to Bluff Overlook Drive (Route 100) South	-	0.07	1	2
103	-	Number Two Parking Road	0.16	County Road 3 to Hunting Parking Lot 2 (Route 905)	-	0.16	1	2
300	10049285	Shop Road	0.30	From Entrance Road (Route 011) to Chicago Canal Road (Route 415)	-	0.30	1	4
400	10033215	River Service Road	9.27	From Auto Tour Route (Route 010) to Bluff Overlook Road (Route 100)	-	9.27	1	5
401	10033214	South Bluff Spur Road	0.31	From Auto Tour Route (Route 400) to end of route	-	0.31	1	5
402	10033214	Hunter Crossing Road	1.28	From Bluff Overlook Drive (Route 100) to Hunting Parking Lot 4 (Route 902)	-	1.28	1	5
403	10033330	Lowry Dike Road	3.17	From River Service Road (Route 400) to Larson Dike Road (Route 404)	ı	3.17	1	5
404	10033330	Larsen Dike Road	0.63	From Lowry Dike Road (Route 403) to Hunting Parking Lot 1 (Route 904)	1	0.63	1	5
405	10033215	Mumm Well Road	2.81	From Larson Dike Road (Route 404) to Headquarters Lateral Road (Route 406)	ı	2.81	1	5
406	-	Headquarters Lateral Road	3.15	From Chicago Canal Road (Route 415) to Baca Lane	-	3.15	1	5
407	-	Mumm Well Spur Road	0.74	From Mumm Well Road (Route 405) back to Mumm Well Road (Route 405)	1	0.74	1	5
408	10033167	Unit N Lateral Road	0.68	From Mumm Well Road (Route 405) to end of route	-	0.68	1	5
409	1	CHO2 Lateral Road	0.75	From Mumm Well Road (Route 405) to end of route	ı	0.75	1	5
410	-	Stewart Ditch Road	1.06	From Empire Canal to River Service Road (Route 400)	-	1.06	1	5
411	10033326	New Ditch Road	2.01	From Stewart Ditch Road (Route 410) to Lowry Dike Road (Route 403)	ı	2.01	1	5
412	ı	Shephard Ditch Road	0.15	From Headquarters Lateral Road (Route 406) to end of route at dike	ı	0.15	1	5
413	10033322	Castialla Ditch Road	1.09	From Headquarters Lateral Road (Route 406) to County Road and north boundary	-	1.09	1	5
414	-	Unita Road	0.99	From El Rancho Lane to end of route at canal	-	0.99	1	5
415	10033311	Chicago Canal Road	3.11	From Shop Road (Route 300) to End	-	3.11	1	5
416	-	San Luis Ditch North Road	0.26	From Entrance Road (Route 011) to end of route	-	0.26	1	5
417	-	San Luis Ditch South Road	0.43	From Chicago Canal Road (Route 415) to end of route	-	0.43	1	5
418	-	West Headquarters Service Road	0.10	From Entrance Road Parking Lot (Route 906) to end of route	-	0.10	1	5
419	10049291	Unit B Access Road	0.12	From Chicago Canal Road (Route 415) to end of route		0.12	1	5
420	10033325	Andrews Takeout Road	2.95	From Chicago Canal Road (Route 415) to end of route	-	2.95	1	5

Alamosa - 65510 - ROUTE IDENTIFICATION LIST (PARKING)

Shading Color Key:

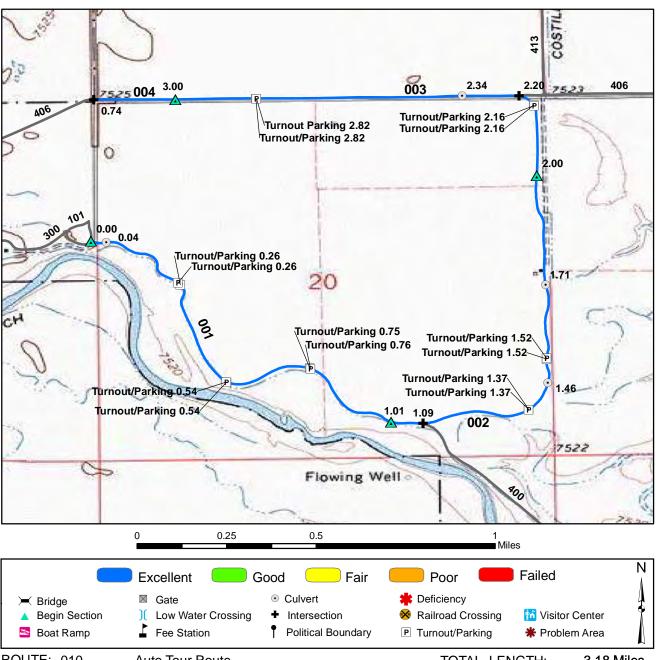
Green = Unpaved Parking Lots

Blue = Paved Parking Lots

RTE#	ASSET NUMBER	ROUTE NAME	RTE SQFT	ROUTE DESCRIPTION	PAVED SQFT	UN- PAVED SQFT
800	10049286	Shop Parking Lot	28223		-	28223
900	10033324	Visitor Center Parking	6605		-	6605
901	10033266	Hunter Parking Lot 3	3970		-	3970
902	10033266	Hunter Parking Lot 4	5123		-	5123
903	10033216	Hunter Parking Lot 5	8565		-	8565
904	10033266	Hunter Parking Lot 1	5053		-	5053
905	10033266	Hunter Parking Lot 2	54982		-	54982
906	10033343	Entrance Road Parking	8753		-	8753

CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT Alamosa - 65510

Rou	ites added	to previous inventory:			No routes added to previous inventory.
	Rte#	Rte Name		-	
1.			Rte Desc:		
			Reason for Add	ition:	
2.			Rte Desc:		
۷.			Reason for Add	ition:	
3.			Rte Desc:		
٥.			Reason for Add	ition:	
			•	•	
Pou	toc romov	ed from previous invent	· OPV		No routes removed from previous inventory.
Nou	Rte #	Rte Name	lory.		no foates felloved from previous livelitory.
			Rte Desc:		
1.			Reason for Ren	noval:	
			Rte Desc:		
2.			Reason for Ren	noval:	
			Rte Desc:	<u></u>	
3.			Reason for Ren	noval:	
			•	•	
Davi	too modifi	ed from previous invent			No routes modified from provings inventory
Kou	Rte #	Rte Name	Jory.		No routes modified from previous inventory.
			Rte Desc:		
1.			Modification:		
•			Rte Desc:	•	
2.			Modification:		
3.			Rte Desc:		
ა.			Modification:		
Con	nments:				



ROUTE: 010 **Auto Tour Route** TOTAL LENGTH: **3.18 Miles**

ASSET: 10033321

RTE DESCRIPTION: From Visitor Center Loop (Route 101) to Headquarters

Lateral Road (Route 406

Section Number	001	002	003	004	
Section Length (miles)	1.01	0.99	1.00	0.18	
Inspection Date	9/27/2008	9/27/2008	9/27/2008	9/27/2008	
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	14	14	14	14	
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	
Remaining Service Life (years)	8	.8	.8	8	
Cost Estimate	\$0	\$0	\$0	\$0	
CRV	\$731000	\$716500	\$723700	\$130300	

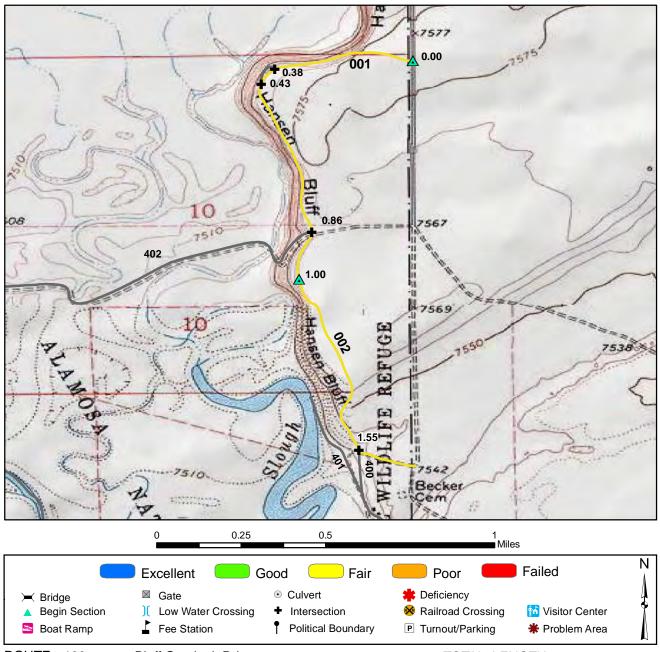


ROUTE: 011 Entrance Road TOTAL LENGTH: 0.52 Miles

ASSET: 10033343

RTE DESCRIPTION: From Northwest Boundary to Entrance Road Parking Lot (Route 906)

Section Number Section Length (miles) Inspection Date	001 0.52 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Gravel 2 16		
Roadway Condition Information			
Condition Remaining Service Life (years) Cost Estimate CRV	Good 7 \$900 \$376334		

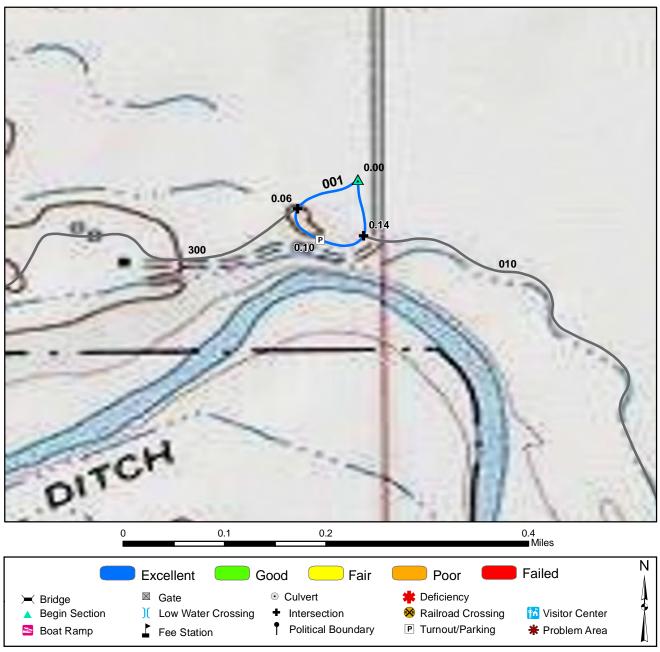


ROUTE: 100 Bluff Overlook Drive TOTAL LENGTH: 1.69 Miles

ASSET: 10033322

RTE DESCRIPTION: From Baca Lane North to Baca Lane South

Section Number Section Length (miles) Inspection Date	001 1.00 9/24/2008	002 0.69 9/24/2008		
Section Information				
Surface Type	Native	Native		
Number of Lanes	1	1		
Roadway Width (feet)	14	14		
Roadway Condition Information				
Condition	Fair	Fair		
Remaining Service Life (years)	4	4		
Cost Estimate	\$2300	\$1600		
CRV	\$374400	\$258300		

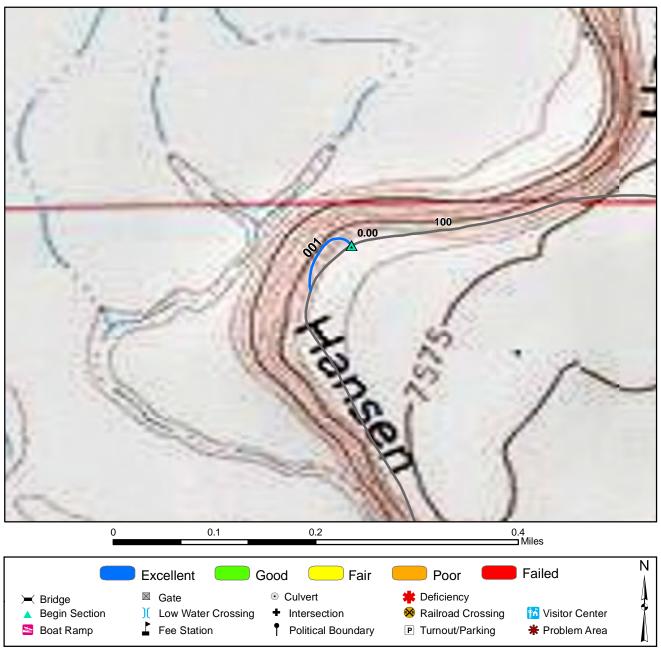


ROUTE: 101 Visitor Center Loop TOTAL LENGTH: 0.19 Miles

ASSET: 10050712

RTE DESCRIPTION: From end of Harmony Road to end of loop

Section Number Section Length (miles) Inspection Date	001 0.19 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Gravel 1 14		
Roadway Condition Information			
Condition	Excellent		
Remaining Service Life (years)	8		
Cost Estimate	\$0 \$137500		
CRV	φ137300		

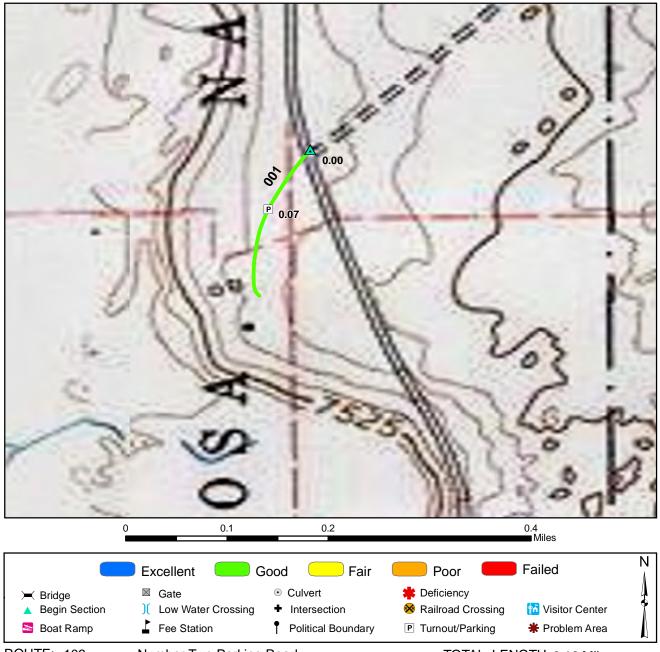


ROUTE: 102 Bluff Overlook Vista Road TOTAL LENGTH: 0.07 Miles

ASSET: 10033322

RTE DESCRIPTION:From Bluff Overlook Drive (Route 100) North to Bluff Overlook Drive (Route 100) South

Section Number Section Length (miles) Inspection Date	001 0.07 9/24/2008		
Section Information			
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	12		
Roadway Condition Information			
Condition	Excellent		
Remaining Service Life (years)	10		
Cost Estimate	\$0		
CRV	\$26200		

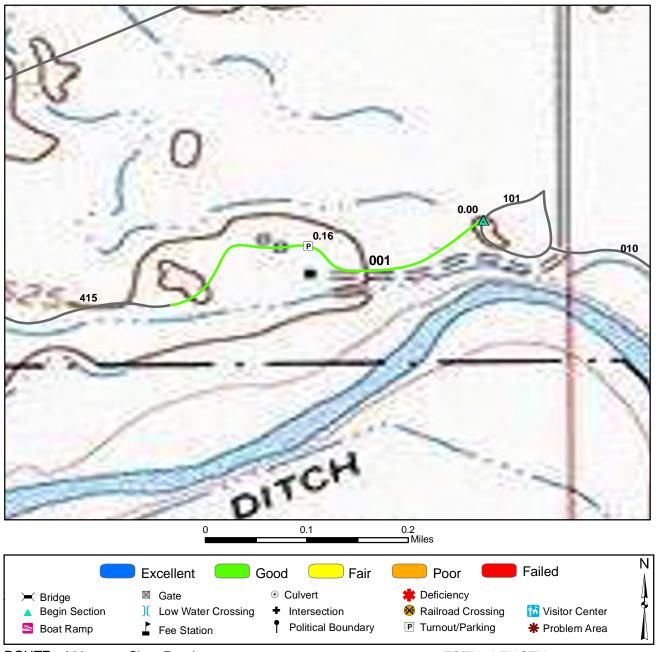


ROUTE: 103 Number Two Parking Road TOTAL LENGTH: 0.16 Miles

ASSET:

RTE DESCRIPTION: County Road 3 to Hunting Parking Lot 2 (Route 905)

Section Number Section Length (miles) Inspection Date	001 0.16 9/27/2008		
Section Information			
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$300		
CRV	\$59900		

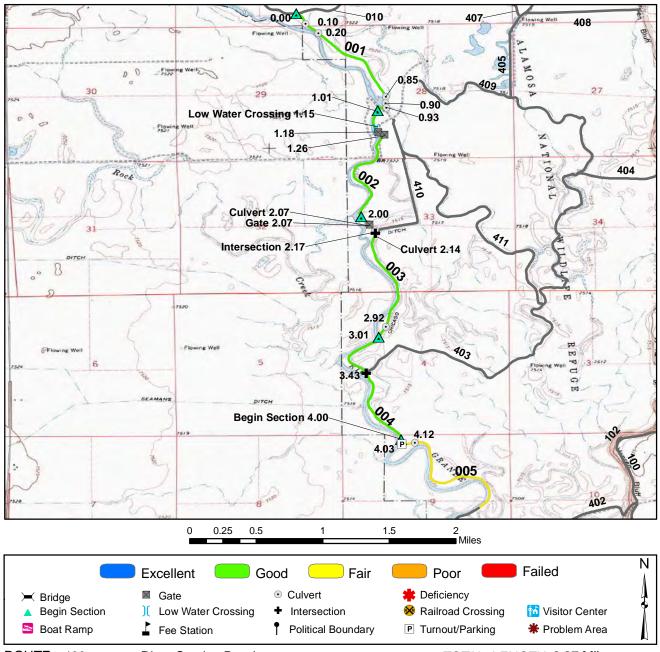


ROUTE: 300 Shop Road TOTAL LENGTH: 0.3 Miles

ASSET: 10049285

RTE DESCRIPTION: From Entrance Road (Route 011) to Chicago Canal Road (Route 415)

Section Number Section Length (miles) Inspection Date	001 0.30 9/27/2008		
Section Information			
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	14		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	7		
Cost Estimate	\$500		
CRV	\$217000		

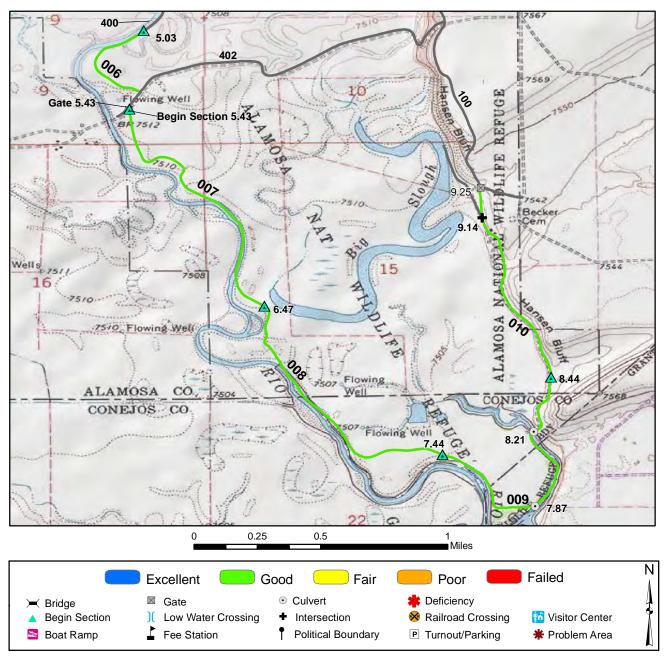


ROUTE: 400 River Service Road TOTAL LENGTH: 9.27 Miles

ASSET: 10033215

RTE DESCRIPTION: From Auto Tour Route (Route 010) to Bluff Overlook Road (Route 100)

Section Number Section Length (miles) Inspection Date	001 1.01 9/24/2008	002 0.99 9/24/2008	003 1.01 9/24/2008	004 1.00 9/24/2008	005 1.03 9/24/2008
Section Information					
Surface Type	Native	Native	Native	Native	Native
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	8	8	8	8	8
Roadway Condition Information					
Condition	Good	Good	Good	Good	Fair
Remaining Service Life (years)	5	5	5	5	3
Cost Estimate	\$1800	\$1800	\$1800	\$1800	\$2300
CRV	\$378100	\$370700	\$378100	\$374400	\$385600

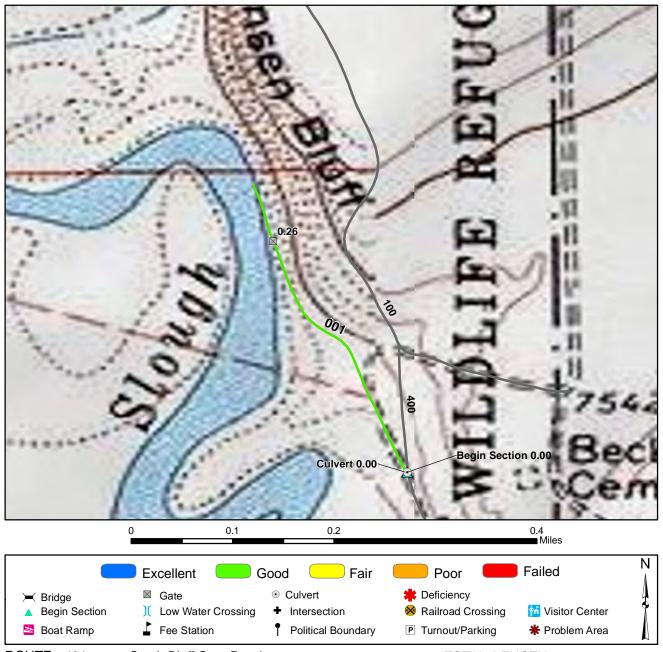


ROUTE: 400 River Service Road TOTAL LENGTH: 9.27 Miles

ASSET: 10033215

RTE DESCRIPTION: From Auto Tour Route (Route 010) to Bluff Overlook Road (Route 100)

Section Number Section Length (miles) Inspection Date	006	007	008	009	010
	0.40	1.04	0.97	1.00	0.82
	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008
Section Information					
Surface Type	Native	Native	Native	Native	Native
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	8	8	8	8	8
Roadway Condition Information					
Condition Remaining Service Life (years) Cost Estimate CRV	Good	Good	Good	Good	Good
	7	5	5	5	5
	\$700	\$1900	\$1800	\$1800	\$1500
	\$149800	\$389400	\$363200	\$374400	\$307000

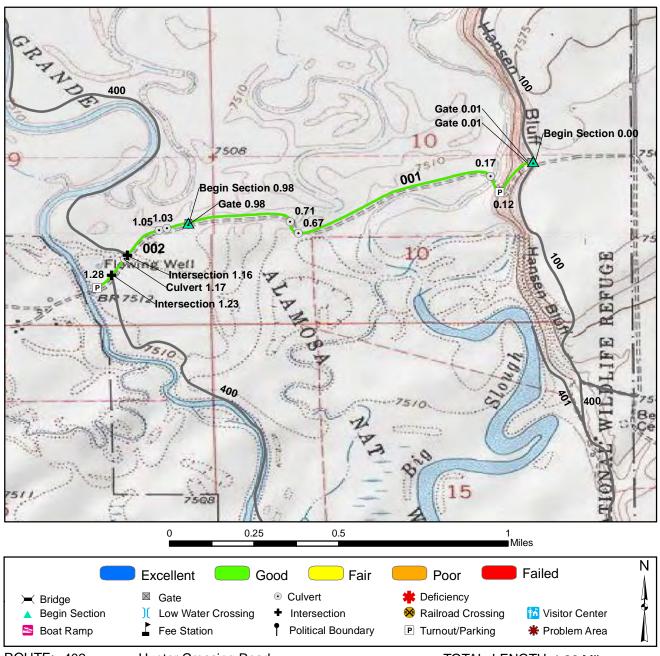


ROUTE: 401 South Bluff Spur Road TOTAL LENGTH: 0.31 Miles

ASSET: 10033214

RTE DESCRIPTION:From Auto Tour Route (Route 400) to end of route

Section Number Section Length (miles) Inspection Date	001 0.31 9/24/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Native 1 8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years) Cost Estimate CRV	5 \$600 \$116100		

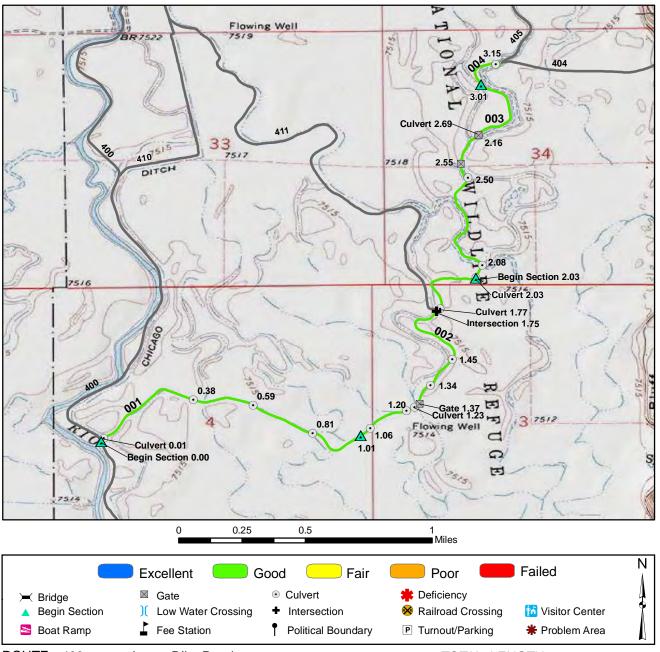


ROUTE: 402 Hunter Crossing Road TOTAL LENGTH: 1.28 Miles

ASSET: 10033214

RTE DESCRIPTION: From Bluff Overlook Drive (Route 100) to Hunting Parking Lot 4 (Route 902)

Section Number Section Length (miles) Inspection Date	001 0.98 9/24/2008	002 0.30 9/24/2008		
Section Information				
Surface Type	Gravel	Gravel		
Number of Lanes	1	1		
Roadway Width (feet)	10	10		
Roadway Condition Information				
Condition	Good	Good		
Remaining Service Life (years)	7	7		
Cost Estimate	\$1700	\$500		
CRV	\$709200	\$217100		

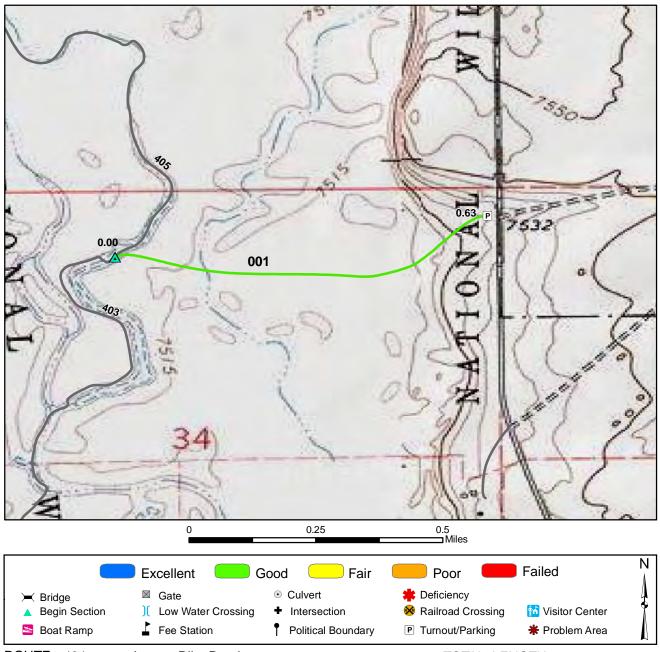


ROUTE: 403 Lowry Dike Road TOTAL LENGTH: 3.17 Miles

ASSET: 10033330

RTE DESCRIPTION: From River Service Road (Route 400) to Larson Dike Road (Route 404)

Section Number Section Length (miles) Inspection Date	001 1.01 9/24/2008	002 1.01 9/24/2008	003 0.99 9/24/2008	004 0.16 9/24/2008	
Section Information					
Surface Type Number of Lanes Roadway Width (feet)	Gravel 1 10	Native 1 8	Native 1 8	Native 1 8	
Roadway Condition Information					
Condition Remaining Service Life (years) Cost Estimate CRV	Good 5 \$1700 \$731000	Good 5 \$1800 \$378100	Good 5 \$1800 \$370700	Good 5 \$300 \$59900	

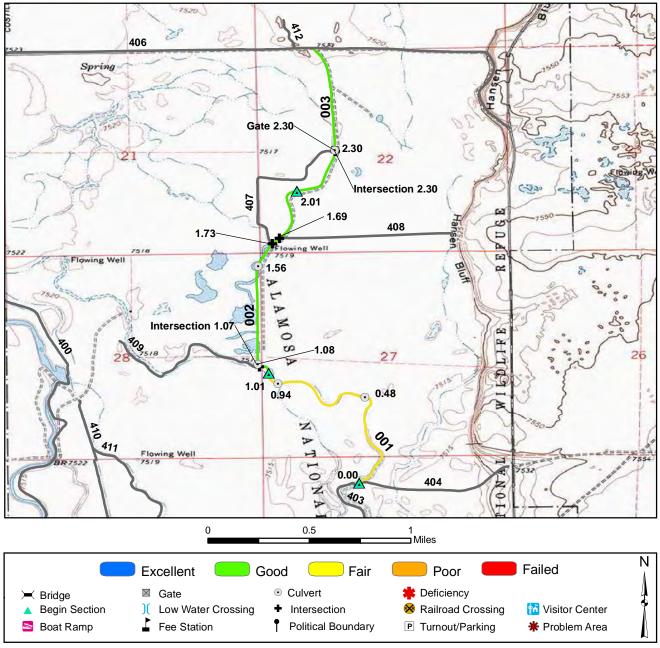


ROUTE: 404 Larsen Dike Road TOTAL LENGTH: 0.63 Miles

ASSET: 10033330

RTE DESCRIPTION: From Lowry Dike Road (Route 403) to Hunting Parking Lot 1 (Route 904)

Section Number Section Length (miles) Inspection Date	001 0.63 9/24/2008		
Section Information			
Surface Type	Gravel		
Number of Lanes	1		
Roadway Width (feet)	8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$1100		
CRV	\$455900		

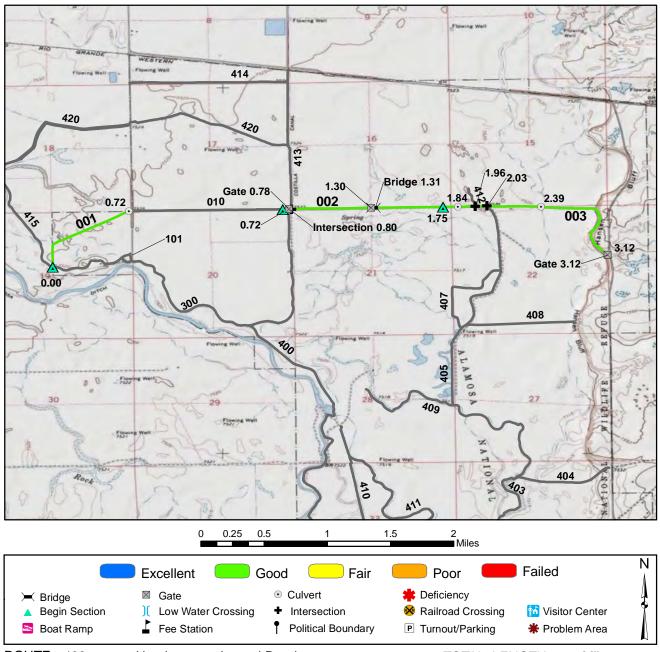


ROUTE: 405 Mumm Well Road TOTAL LENGTH: 2.81 Miles

ASSET: 10033215

RTE DESCRIPTION: From Larson Dike Road (Route 404) to Headquarters Lateral Road (Route 406)

Section Number	001	002	003	
Section Length (miles)	1.01	1.00	0.80	
Inspection Date	9/24/2008	9/24/2008	9/24/2008	
Section Information				
Surface Type	Native	Gravel	Primitive	
Number of Lanes	1	1	1	
Roadway Width (feet)	8	8	8	
Roadway Condition Information				
Condition	Fair	Good	Good	
Remaining Service Life (years)	3	7	7	
Cost Estimate	\$2300	\$1700	\$400	
CRV	\$378100	\$723700	\$0	
OILV	1 72.3.00	7. = 3. 00	70	I



ROUTE: 406 Headquarters Lateral Road TOTAL LENGTH: 3.15 Miles

ASSET:

RTE DESCRIPTION: From Chicago Canal Road (Route 415) to Baca Lane

Section Number Section Length (miles) Inspection Date	001 0.74 9/27/2008	002 1.01 9/27/2008	003 1.40 9/27/2008	
Section Information				
Surface Type	Primitive	Native	Native	
Number of Lanes	1	1	1	
Roadway Width (feet)	8	8	8	
Roadway Condition Information				
Condition	Good	Good	Good	
Remaining Service Life (years)	5	7	5	
Cost Estimate	\$300	\$1800	\$2500	
CRV	\$0	\$378100	\$524200	

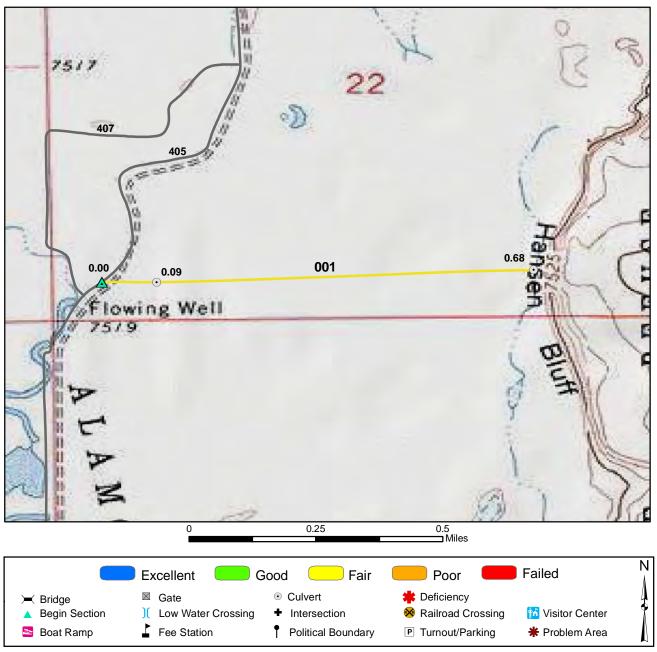


ROUTE: 407 Mumm Well Spur Road TOTAL LENGTH: 0.74 Miles

ASSET:

RTE DESCRIPTION: From Mumm Well Road (Route 405) back to Mumm Well Road (Route 405)

Section Number Section Length (miles) Inspection Date	001 0.74 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Native 1 10		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$1300		
CRV	\$277100		

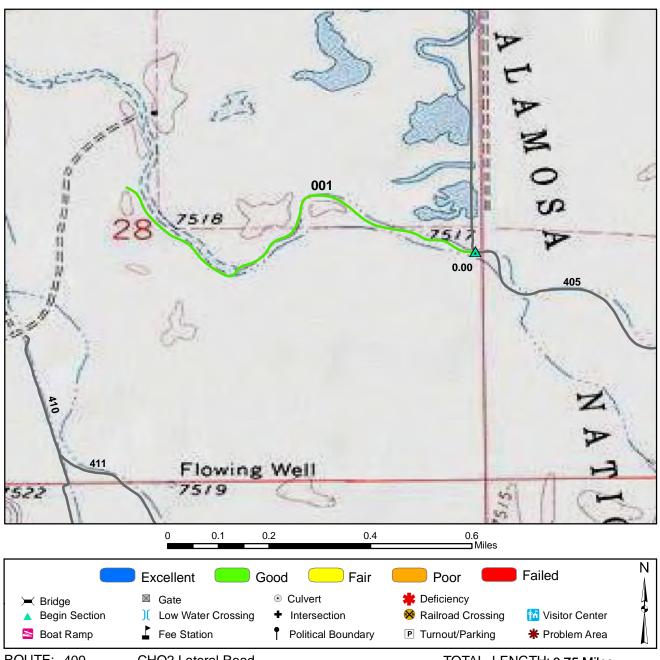


ROUTE: 408 Unit N Lateral Road TOTAL LENGTH: 0.68 Miles

ASSET: 10033167

RTE DESCRIPTION:From Mumm Well Road (Route 405) to end of route

Section Number Section Length (miles) Inspection Date	001 0.68 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Primitive 1 8		
Roadway Condition Information			
Condition	Fair		
Remaining Service Life (years)	3		
Cost Estimate CRV	\$500 \$0		

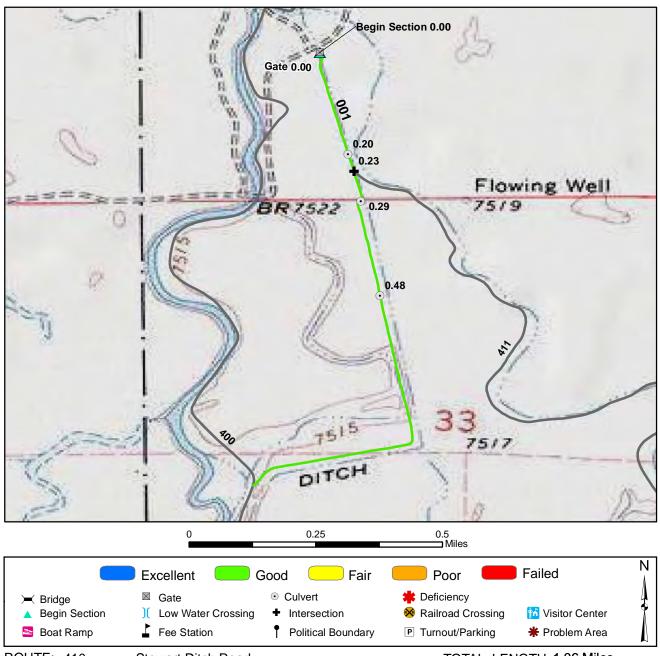


ROUTE: 409 CHO2 Lateral Road TOTAL LENGTH: 0.75 Miles

ASSET:

RTE DESCRIPTION: From Mumm Well Road (Route 405) to end of route

Section Number Section Length (miles) Inspection Date	001 0.75 9/27/2008		
Section Information			
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	10		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	7		
Cost Estimate	\$1400		
CRV	\$280800		

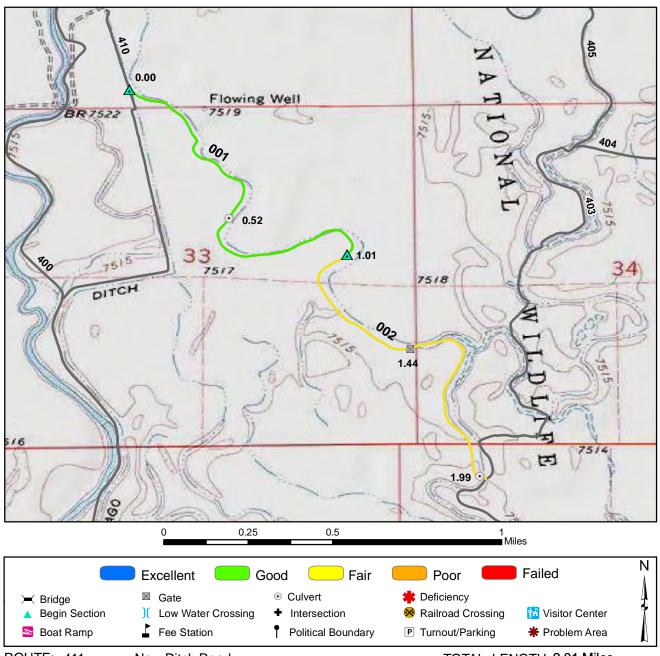


ROUTE: 410 Stewart Ditch Road TOTAL LENGTH: 1.06 Miles

ASSET:

RTE DESCRIPTION: From Empire Canal to River Service Road (Route 400)

Section Number Section Length (miles) Inspection Date	001 1.06 9/27/2008		
Section Information			
Surface Type	Primitive		
Number of Lanes	1		
Roadway Width (feet)	8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$500		
CRV	\$0		

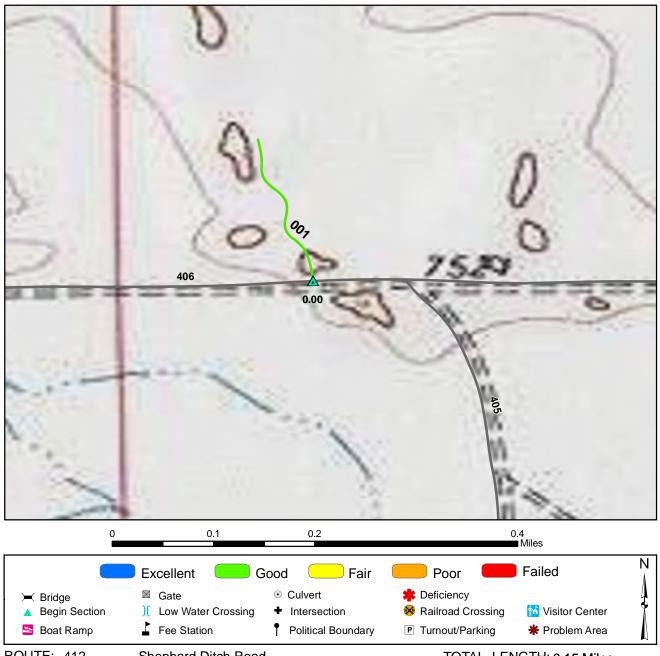


ROUTE: 411 New Ditch Road TOTAL LENGTH: 2.01 Miles

ASSET: 10033326

RTE DESCRIPTION: From Stewart Ditch Road (Route 410) to Lowry Dike Road (Route 403)

Section Number Section Length (miles) Inspection Date	001 1.01 9/27/2008	002 1.00 9/27/2008		
Section Information				
Surface Type	Native	Native		
Number of Lanes	1	1		
Roadway Width (feet)	8	8		
Roadway Condition Information				
Condition	Good	Fair		
Remaining Service Life (years)	7	4		
Cost Estimate	\$1800	\$2300		
CRV	\$378100	\$374400		

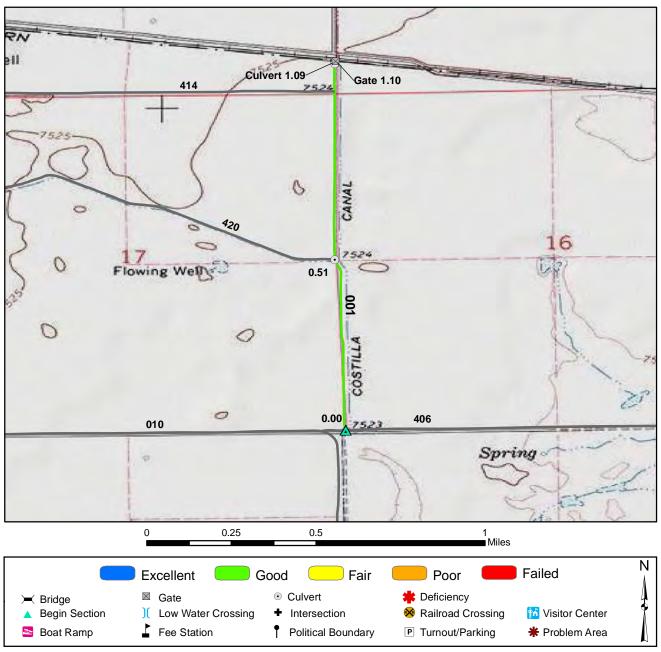


ROUTE: 412 Shephard Ditch Road TOTAL LENGTH: 0.15 Miles

ASSET:

RTE DESCRIPTION: From Headquarters Lateral Road (Route 406) to end of route at dike

Section Number Section Length (miles) Inspection Date	001 0.15 9/27/2008		
Section Information			
Surface Type	Primitive		
Number of Lanes	1		
Roadway Width (feet)	8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$100		
CRV	\$0		

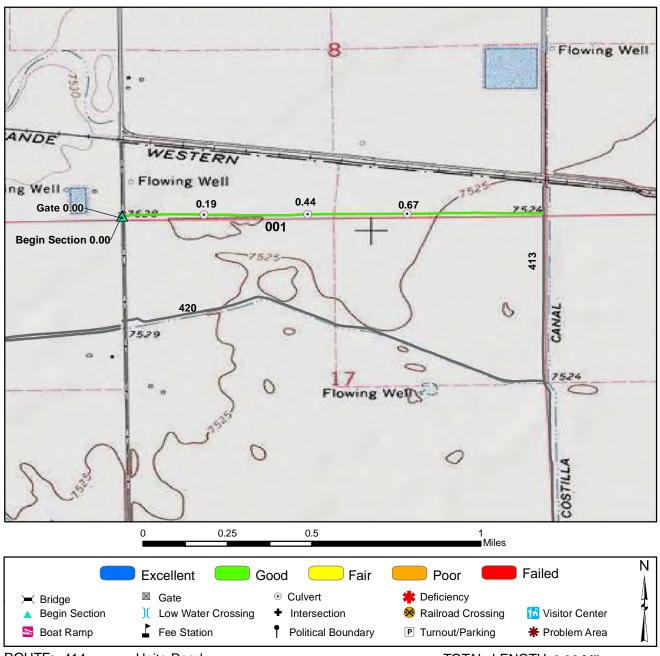


ROUTE: 413 Castialla Ditch Road TOTAL LENGTH: 1.09 Miles

ASSET: 10033322

RTE DESCRIPTION: From Headquarters Lateral Road (Route 406) to County Road and north boundary

Section Number Section Length (miles) Inspection Date	001 1.09 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Primitive 1 8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate CRV	\$500 \$0		

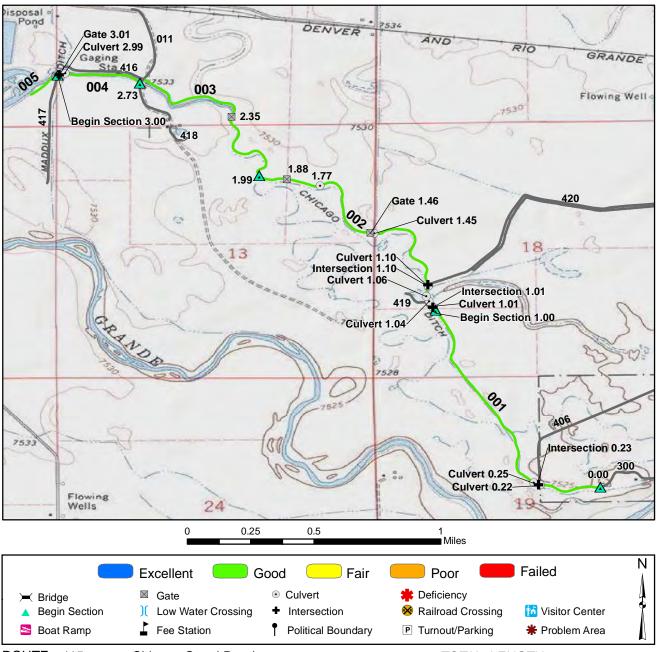


ROUTE: 414 Unita Road TOTAL LENGTH: 0.99 Miles

ASSET:

RTE DESCRIPTION: From El Rancho Lane to end of route at canal

Section Number Section Length (miles) Inspection Date	001 0.99 9/27/2008		
Section Information			
Surface Type	Primitive		
Number of Lanes	1		
Roadway Width (feet)	12		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	7		
Cost Estimate	\$500		
CRV	\$0		

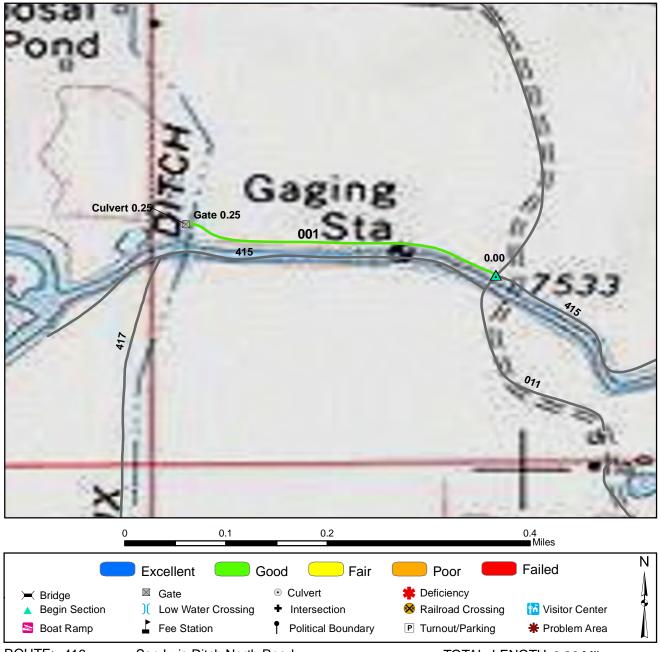


ROUTE: 415 Chicago Canal Road TOTAL LENGTH: 3.11 Miles

ASSET: 10033311

RTE DESCRIPTION: From Shop Road (Route 300) to End

Section Number Section Length (miles) Inspection Date	001	002	003	004	005
	1.00	0.99	0.74	0.27	0.11
	9/27/2008	9/27/2008	9/27/2008	9/27/2008	9/27/2008
Section Information					
Surface Type	Native	Native	Native	Native	Native
Number of Lanes	1	1	1	2	1
Roadway Width (feet)	10	8	8	28	14
Roadway Condition Information					
Condition Remaining Service Life (years) Cost Estimate CRV	Good	Good	Good	Good	Good
	5	5	7	5	5
	\$1800	\$1800	\$1300	\$500	\$200
	\$374400	\$370700	\$277100	\$101100	\$41200

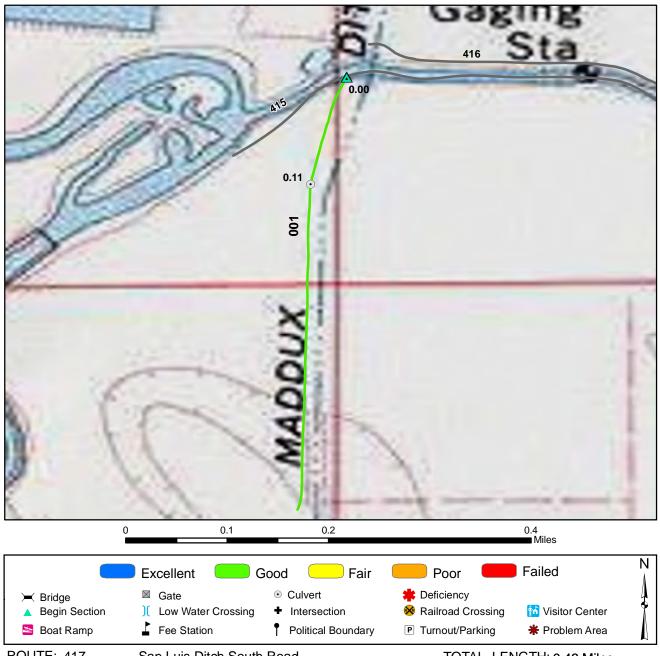


ROUTE: 416 San Luis Ditch North Road TOTAL LENGTH: 0.26 Miles

ASSET:

RTE DESCRIPTION: From Entrance Road (Route 011) to end of route

Section Number Section Length (miles) Inspection Date	001 0.26 9/27/2008		
Section Information			
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	8		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$500		
CRV	\$97300		

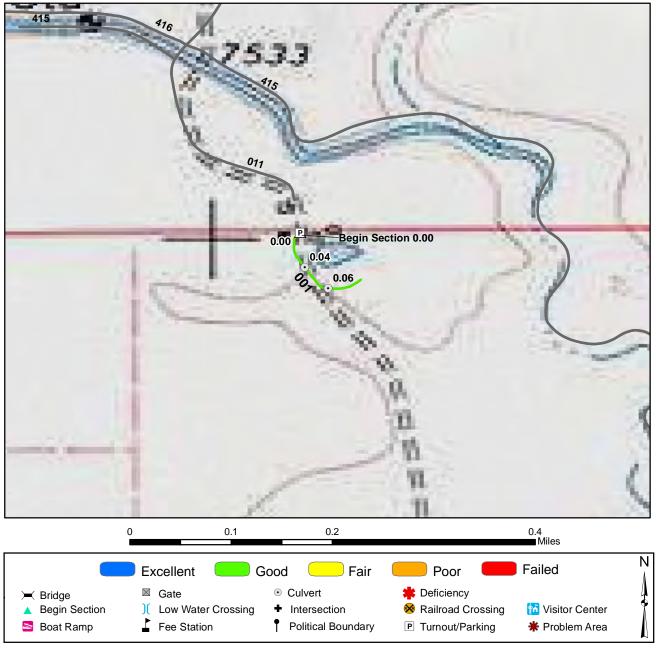


ROUTE: 417 San Luis Ditch South Road TOTAL LENGTH: 0.43 Miles

ASSET:

RTE DESCRIPTION: From Chicago Canal Road (Route 415) to end of route

Section Number Section Length (miles) Inspection Date	001 0.43 9/27/2008		
Section Information			
Surface Type	Native		
Number of Lanes	1		
Roadway Width (feet)	14		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	5		
Cost Estimate	\$800		
CRV	\$161000		

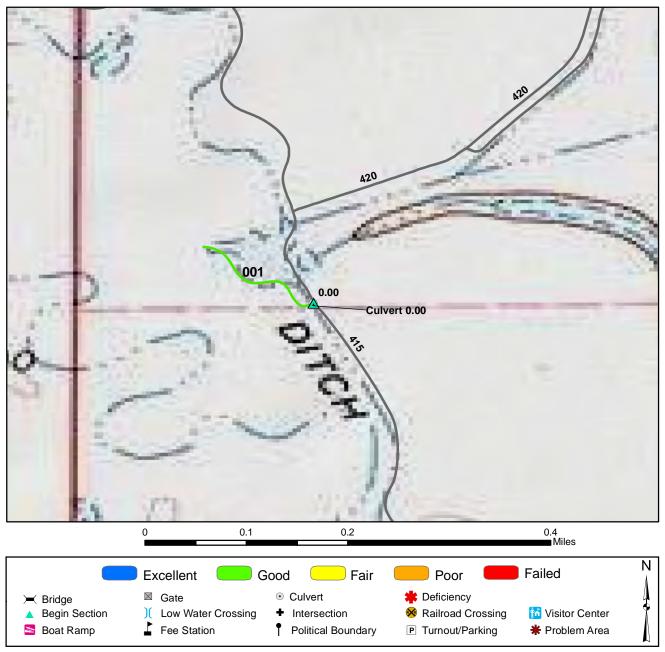


ROUTE: 418 West Headquarters Service Road TOTAL LENGTH: 0.1 Miles

ASSET:

RTE DESCRIPTION: From Entrance Road Parking Lot (Route 906) to end of route

Section Number Section Length (miles) Inspection Date	001 0.10 9/27/2008		
Section Information			
Surface Type Number of Lanes Roadway Width (feet)	Gravel 1 10		
Roadway Condition Information			
Condition	Good		
Remaining Service Life (years)	7		
Cost Estimate CRV	\$200 \$72400		

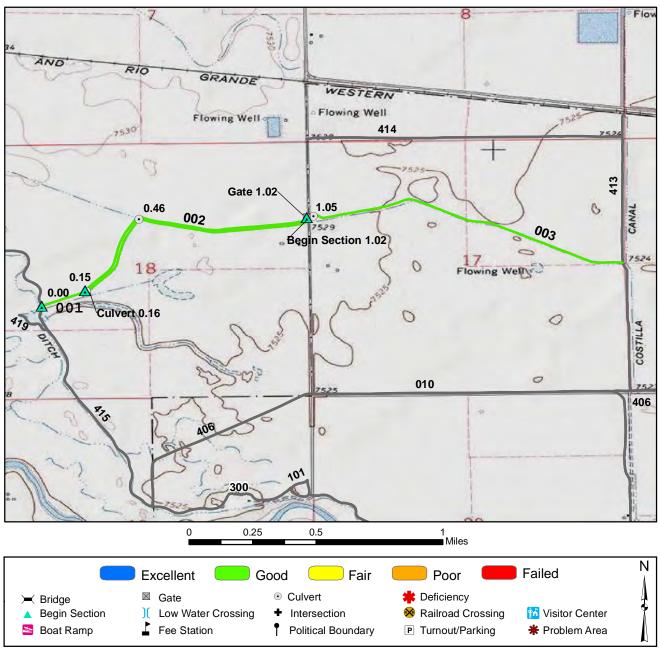


ROUTE: 419 Unit B Access Road TOTAL LENGTH: 0.12 Miles

ASSET: 10049291

RTE DESCRIPTION: From Chicago Canal Road (Route 415) to end of route

001 0.12 9/27/2008				
Primitive 1 8				
Good				
5				
\$100 \$0				
	0.12 9/27/2008 Primitive 1 8 Good 5 \$100	0.12 9/27/2008 Primitive 1 8 Good 5 \$100	0.12 9/27/2008 Primitive 1 8 Good 5 \$100	0.12 9/27/2008 Primitive 1 8 Good 5 \$100



ROUTE: 420 Andrews Takeout Road TOTAL LENGTH: 2.95 Miles

ASSET: 10033325

RTE DESCRIPTION: From Chicago Canal Road (Route 415) to end of route

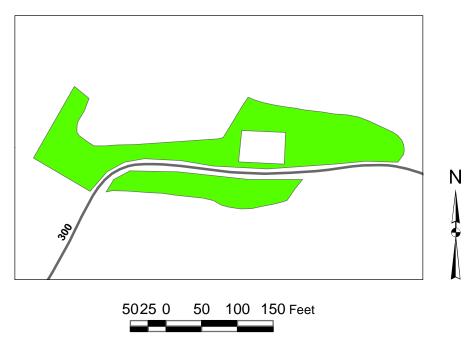
Section Number Section Length (miles) Inspection Date	001 1.02 9/27/2008	002 0.87 9/27/2008	003 1.06 9/27/2008	
Section Information				
Surface Type Number of Lanes Roadway Width (feet)	Native 1 10	Primitive 1 10	Primitive 1 10	
Roadway Condition Information				
Condition Remaining Service Life (years) Cost Estimate CRV	Good 5 \$1800 \$382000	Good 7 \$400 \$0	Good 5 \$500 \$0	

Route 800: Shop Parking Lot

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10049286	9/27/2008	Gravel	28223	Good	\$4500



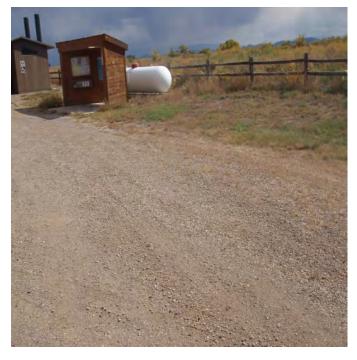


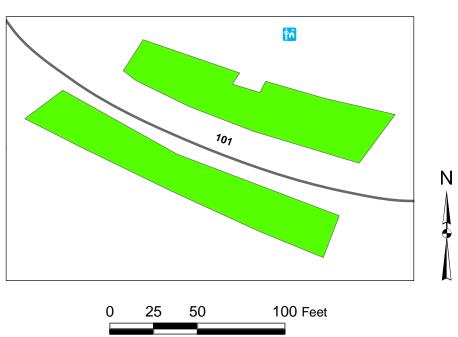


Route 900: Visitor Center Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033324	9/27/2008	Gravel	6605	Good	\$1000





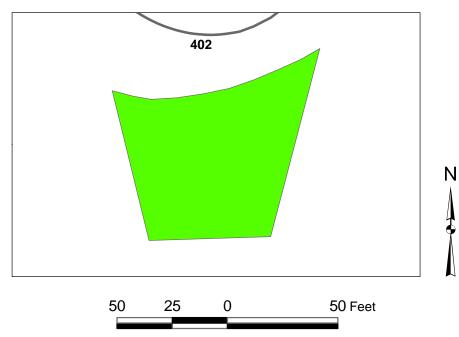


Route 901: Hunter Parking Lot 3

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033266	9/24/2008	Gravel	3970	Good	\$600



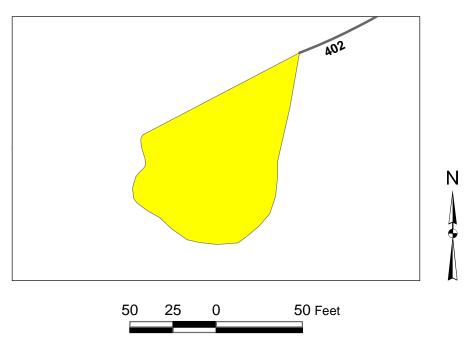




Route 902: Hunter Parking Lot 4

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033266	9/24/2008	Gravel	5123	Fair	\$1400

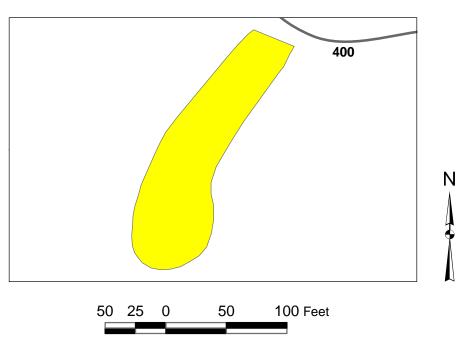




Route 903: Hunter Parking Lot 5

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033216	9/24/2008	Native	8565	Fair	\$2400



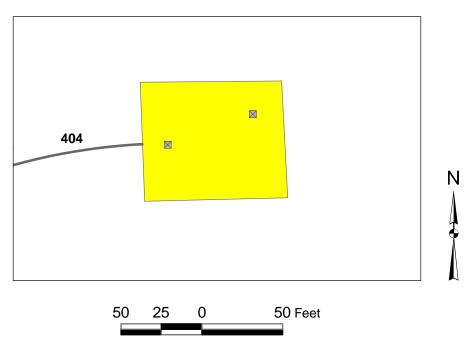


Route 904: Hunter Parking Lot 1

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033266	9/24/2008	Native	5053	Fair	\$1400



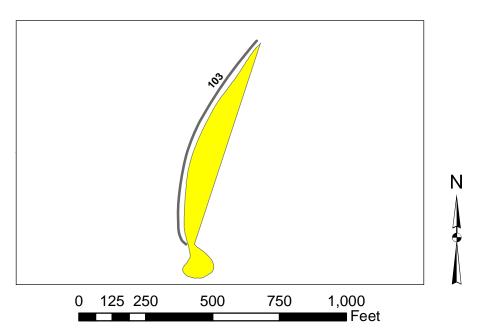




Route 905: Hunter Parking Lot 2

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033266	9/27/2008	Native	54982	Fair	\$ 15300



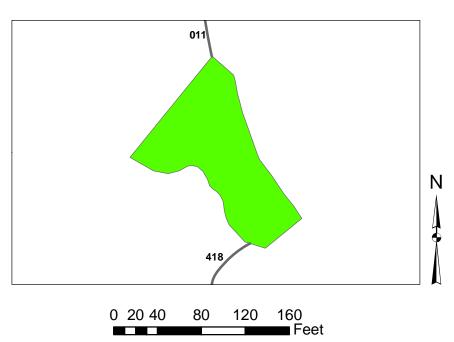


Route 906: Entrance Road Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10033343	9/27/2008	Gravel	8753	Good	\$1400







ALAMOSA NWR Bridge Inventory						
Rte #	Milepost	NBIS#	Sufficiency Rating	Functionally Obsolete	Structurally Deficient	
406	1.31					

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Route



Photo # 1084 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Route



Photo # 1087 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Route



Photo # 1092 - MP 2.00 - Begin Section 003

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Route



Photo # 1095 - MP 3.00 - Begin Section 004

ROUTE NUMBER: 011 ROUTE NAME: Entrance Road



Photo # 1132 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 100 ROUTE NAME: Bluff Overlook Drive



Photo # 2854 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 101 ROUTE NAME: Visitor Center Loop



Photo # 1096 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 103 ROUTE NAME: Number Two Parking Road



Photo # 1069 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 300 ROUTE NAME: Shop Road



Photo # 1099 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 620 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 619 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 624 - MP 2.00 - Begin Section 003

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 632 - MP 3.01 - Begin Section 004

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 633 - MP 4.00 - Begin Section 005

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 636 - MP 5.03 - Begin Section 006

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 640 - MP 5.43 - Begin Section 007

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 641 - MP 6.47 - Begin Section 008

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 642 - MP 7.44 - Begin Section 009

ROUTE NUMBER: 400 ROUTE NAME: River Service Road



Photo # 647 - MP 8.44 - Begin Section 010

ROUTE NUMBER: 401 ROUTE NAME: South Bluff Spur Road



Photo # 651 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 402 ROUTE NAME: Hunter Crossing Road



Photo # 658 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 402 ROUTE NAME: Hunter Crossing Road



Photo # 667 - MP 0.98 - Begin Section 002

ROUTE NUMBER: 403 ROUTE NAME: Lowry Dike Road



Photo # 672 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 403 ROUTE NAME: Lowry Dike Road



Photo # 681 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 403 ROUTE NAME: Lowry Dike Road



Photo # 694 - MP 2.03 - Begin Section 003

ROUTE NUMBER: 403 ROUTE NAME: Lowry Dike Road



Photo # 705 - MP 3.01 - Begin Section 004

ROUTE NUMBER: 404 ROUTE NAME: Larsen Dike Road



Photo # 708 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 405 ROUTE NAME: Mumm Well Road



Photo # 713 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 405 ROUTE NAME: Mumm Well Road



Photo # 718 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 405 ROUTE NAME: Mumm Well Road



Photo # 723 - MP 2.01 - Begin Section 003

ROUTE NUMBER: 406 ROUTE NAME: Headquarters Lateral Road



Photo # 1026 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 406 ROUTE NAME: Headquarters Lateral Road



Photo # 1029 - MP 0.74 - Begin Section 002

ROUTE NUMBER: 406 ROUTE NAME: Headquarters Lateral Road



Photo # 1032 - MP 1.31 - Bridge

ROUTE NUMBER: 406 ROUTE NAME: Headquarters Lateral Road



Photo # 1033 - MP 1.75 - Begin Section 003

ROUTE NUMBER: 407 ROUTE NAME: Mumm Well Spur Road



Photo # 1039 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 408 ROUTE NAME: Unit N Lateral Road



Photo # 1044 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 409 ROUTE NAME: CHO2 Lateral Road



Photo # 1049 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 410 ROUTE NAME: Stewart Ditch Road



Photo # 1053 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: New Ditch Road



Photo # 1060 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: New Ditch Road



Photo # 1063 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 412 ROUTE NAME: Shephard Ditch Road



Photo # 1070 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 413 ROUTE NAME: Castialla Ditch Road



Photo # 1071 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 414 ROUTE NAME: Unita Road



Photo # 1077 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 415 ROUTE NAME: Chicago Canal Road



Photo # 1102 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 415 ROUTE NAME: Chicago Canal Road



Photo # 1107 - MP 1.00 - Begin Section 002

ROUTE NUMBER: 415 ROUTE NAME: Chicago Canal Road



Photo # 1120 - MP 1.99 - Begin Section 003

ROUTE NUMBER: 415 ROUTE NAME: Chicago Canal Road



Photo # 1126 - MP 2.73 - Begin Section 004

ROUTE NUMBER: 416 ROUTE NAME: San Luis Ditch North Road



Photo # 1122 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 417 ROUTE NAME: San Luis Ditch South Road



Photo # 1128 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 418 ROUTE NAME: West Headquarters Service Road



Photo # 1137 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 419 ROUTE NAME: Unit B Access Road



Photo # 1143 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 420 ROUTE NAME: Andrews Takeout Road



Photo # 1146 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 420 ROUTE NAME: Andrews Takeout Road



Photo # 1154 - MP 0.15 - Begin Section 002

ROUTE NUMBER: 420 ROUTE NAME: Andrews Takeout Road



Photo # 1151 - MP 1.02 - Begin Section 003

ROUTE NUMBER: 420 ROUTE NAME: Andrews Takeout Road



Photo # 1151 - MP 1.02 - Begin Section 003

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities	
0	No Accidents to Report	0	0	

APPENDIX

	FWS ROAD FUNCTIONAL CLASSIFICATION								
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access								
	route, main auto tour route, or thoroughfare for refuge visitors. These routes are								
	accessible by 2WD vehicles. Routes are numbered from 10 to 99.								
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within								
	the refuge. These routes can also provide access to areas of scenic, scientific,								
	recreational or cultural interest, such as overlooks, campgrounds, education								
	centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered								
	from 100 to 199.								
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation								
	within special use areas such as campgrounds or public concessionaire facilities								
	or access to remote areas of the refuge. These routes may not be 2WD accessible.								
	Routes are numbered from 200 to 299								
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access								
	to administrative developments or structures such as maintenance offices,								
	employee quarters, or utility areas. These routes are accessible by 2WD vehicles.								
	These routes may restrict access to the general public. Routes are numbered from								
	300 to 399.								
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public,								
	such as maintenance roads, service roads, patrol roads, and fire breaks. These								
	routes may be open to the public for a short period of time for a special use, such								
	as hunting access. These routes may not be 2WD accessible. Routes are								
	numbered from 400 to 499.								

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route.

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on four different surface types: Asphalt, Concrete, Gravel, and Native. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** Interconnected cracks forming large blocks.
- **Edge Cracking** Cracks running along the edge of the pavement surface.
- **Patches** Original surface repaired with new asphalt patch material.
- **Potholes** Holes or depressions in the pavement.
- **Rutting** surface depressions in the wheel paths.
- **Roughness** Evenness of pavement for serviceability.
- **Drainage** Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has given Remaining Service Life (RSL) values (in years) based on the rating for that particular distress. The distress with the rating resulting in the lowest RSL value is considered to be the governing distress. That value is then assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** Chipping, breaking, or cracking of slab edges
- Joint Seal Damage Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** Faulting and/or cracking localized to individual slabs.
- **Faulting** Difference in elevation across a crack or joint.
- **Longitudinal Cracking** Cracks in the pavement running parallel to road.

- **Transverse Cracking** Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** Faulting, settling, or cracking of previously placed patch
- **Map Cracking** A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0-9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Rating System

Data is collected on the following distresses and conditions:

- **Cross Section (Crown)** Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage** Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** Small trenches or holes developing perpendicular to the roadway.
- **Potholes** Holes or depressions in the roadway.
- **Rutting** Depressions running parallel with the roadway, in the wheelpaths.
- Dust Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0-9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0-3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

 ${f Good}$ – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has join or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE										
(Asphalt and Concrete Pavements)										
	FAILED	POOR		FAIR		GOOD		EXCELLENT		
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20		

Gravel and Native

Note - Native surfaces do not have a gravel layer.

Excellent - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

Good - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

Fair - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

Poor - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

Failed - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent,good, fair, poor, and failed condition.

SUBJECTIVE CONDITION RATING FOR REMAINING										
SERVICE LIFE										
(Gravel and Native Surfaces)										
	FAILED	POOR	FAIR	GOOD	EXCELLENT					
RSL Years	0	1-2	3-4	5-7	8-10					